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CLAIMS:

1. A process for the acid extraction of a hydrocarbon feed containing nitrogen contaminants which comprises: contacting the hydrocarbon feed with a mineral acid in an extraction zone to produce an acid treated hydrocarbon mixture, conducting the acid treated hydrocarbon mixture to a separation zone and separating the acid treated hydrocarbon mixture into a nitrogen lean hydrocarbon and a nitrogen rich hydrocarbon/acid mixture, conducting the nitrogen rich hydrocarbon/acid mixture to a first compartment of a membrane-containing unit, said unit further comprising a membrane and a second compartment, and selectively permeating the nitrogen rich hydrocarbon/acid mixture through the membrane into a hydrocarbon lean acid permeate in the second compartment and a hydrocarbon rich acid retentate in the first compartment.
2. The process of claim 1 wherein the mineral acid is sulfuric acid.
3. The process of any preceding claim wherein the extraction zone is a fiber film contactor.
4. The process of any preceding claim wherein the separation zone is a settler.
5. The process of any preceding claim wherein the settler includes a coalescing media.

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6. The process of any preceding claim wherein the membrane comprises a perfluorinated ionomer membrane.
7. The process of any preceding claim wherein the perfluorinated ionomer membrane contains active anionic groups.
8. The process of any preceding claim wherein the perfluorinated ionomer membrane is a copolymer of perfluoroethylene and perfluorovinylether.
9. The process of any preceding claim wherein the membranes are made of at least one of polyvinyl alcohol, polyvinyl sulfate and oxoanion modified polyvinyl alcohol.
10. The process of any preceding claim wherein the oxoanion is phosphate, arsenate, selenate, tellurate, nitrate or borate.
11. The process of any preceding claim wherein at least a portion of the hydrocarbon rich acid retentate is passed to the separation zone.
12. The process of any preceding claim wherein at least a portion of the hydrocarbon lean acid permeate is passed to the extraction zone.
13. The process of any preceding claim wherein the hydrocarbon lean acid permeate is passed to a second membrane containing unit.
14. The process of any preceding claim wherein at least a portion of the hydrocarbon rich acid retentate is regenerated.